DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 1.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-000591 Address: 333 Burma Road **Date Inspected:** 09-Oct-2007

City: Oakland, CA 94607

Project Name: SAS Superstructure **OSM Arrival Time:** 700 **OSM Departure Time:** 1700 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: American Bridge/Fluor Enterprises, a JV **Location:** Benicia, CA

CWI Name: Michael Johnson **CWI Present:** Yes No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:**

Delayed / Cancelled: Yes No N/A 34-0006 **Bridge No: Component:** Procedure Qualification Record (PQR) Test

Summary of Items Observed:

Caltrans Quality Assurance (QA) Inspector Danny C. White (B89) is present at the Ironworkers Apprenticeship Training Facility as requested by American Bridge/Fluor (ABF) for the purpose of witnessing Procedure Qualification Record (PQR) tests. On this date, the QA Inspector observed the following personnel present: Smith-Emery Company Quality Control (QC) Representative Certified Welding Inspector (CWI) Mr. Michael Johnson, ABF Representatives Mr. Tommy Gibson, Mr. Rick Clayborn and welder Mr. Dan Gordon.

In the beginning of the shift the QA Inspector observed the welding operators set up (2) non-PQR test plates and practice welding on them. The welder later in the shift the QA Inspector observed the welding operators deposit (4) weld passes onto PQR test plate known as ABF-PQR-015-1 in the 4G position. The QA Inspector observed that the welders continued to experience problems with porosity during welding and numerous weld passes were removed by grinding prior to depositing successive weld passes. The welders used 1/16 inch diameter (1.6mm) ESAB 70 Ultra-Plus E70T-1 (FCAW-G) welding wire and 90% Argon/10% Carbon Dioxide gas. The welding operators utilized an ESAB power source, wire feeder and mechanical welding device to deposit these welds. Later in the shift the QA Inspector was informed by ABF that the above mentioned PQR test plate will not undergo any further welding. See photo below for additional information.

WELDING INSPECTION REPORT

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Summary of Conversations:

See above.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By:	White, Danny	Quality Assurance Inspector
Reviewed By:	Mertz,Robert	QA Reviewer